



BRIDGEWATER STATE COLLEGE

1973-74 CATALOGUE SUPPLEMENT



Bridgewater State College

CATALOGUE SUPPLEMENT--1973-74

The publication of this Catalogue Supplement is deemed necessary because of several significant changes of College policy and course changes. Unless otherwise noted, all course changes become effective on January 1, 1974.

The page numbers in parentheses to the left of each course title refer to pages in the 1973-74 Undergraduate Catalogue. The status of each course is indicated to the right of the course title in parentheses (i.e., New Course, Title Change, Prerequisite Change, Credit Change).

(Page 21) REQUIRED ANNUAL FEES (Effective September 1, 1973)

\$25.00 - Student Government Association Fee	\$12.50 per semester
\$27.00 - Athletic Fee	\$13.50 per semester
\$35.00 - Student Union Building Fee	\$17.50 per semester

(Page 22) REFUND POLICY FOR OFFICIAL WITHDRAWAL FROM THE COLLEGE (Effective September 1, 1973)

Tuition and Food Service

66 2/3% until the end of the first week of classes.
50% until the end of the second week of classes.
33 1/3% until the end of the third week of classes.
After the third week of classes NO refund will be made.

(Page 26) GRADING SYSTEM (Effective September 1, 1973)

All approved courses taken after September 1, 1973 through the Division of Continuing Education at Bridgewater State College will be included in the computation of a Day Student's QPA.

(Page 30) GRADUATION WITH HONORS (Effective September 1, 1973)

Academic excellence for the baccalaureate program is recognized by inscribing the degree summa cum laude (cumulative average of 3.8), magna cum laude (3.6), or cum laude (3.3). The cumulative QPA for Honors is based on all college work attempted.

(Pages 33-37) GENERAL EDUCATION REQUIREMENTS (Effective January 1, 1974)

The General Education Requirement of Personal Health (HE-110) is dropped, thus reducing by two (2) the number of credits needed to satisfy these requirements.

The minimum of 120 semester hours required for graduation from the college remains the same. See page 26 of the 1973-74 catalogue.

DEPARTMENT OF CHEMICAL SCIENCES

- (p. 52) CH-280 Physical Chemistry for Life Science --3 crs. (New course)

A study of the laws governing the physical and chemical behavior of compounds of primary interest to students in the Life Science fields. Particular application will be made of the thermodynamics, Kinetics and equilibria involved in compounds of biological interest.

DEPARTMENT OF EARTH SCIENCES AND GEOGRAPHY

- (p. 55) ES-210 War/Peace--3 crs. (New course)

An introduction to open-ended research and discussion to discover non-lethal resolution of conflicts between groups of human beings in a finite world.

- (p. 56) ES-373 Optical Mineralogy--3 crs. (New course)

Prq.: ES-372

Principles of optical crystallography. Measurement of optical constants with the polarizing microscope. One lecture period and two two-hour laboratory periods weekly.

- (p. 56) ES-374 Optical Petrology--3 crs. (New course)

Prq.: ES-373

Systematic study of rocks and rock-forming minerals with emphasis upon the use of the polarizing microscope. Interpretation of mineral assemblages, texture and structures, problems of petrogenesis. One lecture period and two two-hour laboratory periods weekly.

- (p. 56) ES-410 Urban Land Use Mapping--3 crs. (New course)

Prq.: ES-353

The process of mapping urban land uses will be studied with emphasis placed on field work. A total of 90 contact hours working in the field and in an urban planning office is required of all students taking this course.

- (p. 57) ES-465 Economic Geology II--3 crs. (New course)

Study of selected major metallic and non-metallic deposits, energy sources and hydrologic reserves. Methods of extraction and the resulting environmental impact. Two lecture periods and one two-hour laboratory period weekly.

- (p. 57) ES-476 Paleoenvironmental Reconstruction--3 crs. (New course)

Prq.: ES-181, 192 or permission of the instructor.
Introduction to modern concepts and principles in sedimentology, paleoecology, and correlation: lithostratigraphic and bio-stratigraphic classification and interpretation of depositional and organic environments. Two lecture periods and one two-hour laboratory period weekly.

- (p. 58) ES-490 Field Methods in Geology--3 crs. (New course)

Prq.: ES-181, 192 or permission of the instructor.
Collection, processing and interpretation of field data developed by geologic mapping. Presentation of geologic reports involving maps, cross-sections and sample data. One lecture period and two two-hour laboratory periods weekly.

- (p. 58) ES-499 Directed Study in Earth Science or Geography--3 crs. (New course)

Prq.: Permission of the instructor.
This course enables students to do honors work in accordance with honors program adopted by the department.

DEPARTMENT OF EDUCATIONAL SERVICES

- (p. 60) ED-331 Developmental Reading in the Secondary School--3 crs.
(New course--effective Spring Semester, 1973)

The techniques used to develop reading skills in the secondary school, evaluation of the modern reading materials available, a study of techniques used to analyze students' reading needs and a survey of administration of reading programs in the secondary school.

DEPARTMENTS OF HEALTH AND PHYSICAL EDUCATION

- (p. 70) HE-110 Personal Health--2 crs. (Removed from catalogue)

- (p. 71) HE-301 Human Sexuality--3 crs. (New course)

Investigation of latest research relating to human sexual response, sexual attitudes and sexual values. Topics covered will also include homosexuality, masturbation, venereal disease, prostitution, abortion, birth control, premarital and extramarital relations.

- (p. 71) HE-302 First Aid--1 cr. (Title Change and Course Description Change)

Practical application of techniques used to care for the suddenly ill or injured. Successful completion will result in American Red Cross certification.

- (p. 71) HE-304 Sex and Family Life Education--3 crs. (New course)

A course designed to focus on current health issues related to marriage and the family: family planning, child rearing, family finances, insurance and consumer health care, divorce, infidelity, separation and their impact.

- (p. 71) HE-305 Drugs in Society--3 crs. (New course)

Study of the impact of the environmental and cultural values affecting the drug using population. Views on subculture and alternative life styles and the forces that shape them. Understanding trends of modern treatment facilities and rehabilitation procedures. Emphasis on alternatives to drug use.

- (p. 71) HE-306 Drug Education for Teachers--1 cr. (New course)

Overview of drug issues confronting classroom teachers. Exploration of teaching techniques, value systems, legal implications of teaching and confidentiality. Practical aspects of dealing with potentially controversial aspects of drug education.

- (p. 71) HE-307 Health Education in the Elementary School--2 crs. (New course)

Study of the identification and appraisal of physical, emotional, and social health problems of elementary school children. Focus on teachers' approaches toward health education and the creation of an emotionally, socially and intellectually healthy classroom environment.

- (p. 71) HE-308 Health for the College Student--3 crs. (New course)

An opportunity for the college student to better understand those health issues affecting him today. Areas covered include sexuality, marriage, family, drugs, alcohol, tobacco, emotional health and consumer health.

(p. 71) HE-310 Health Emergencies and Crisis Care--3 crs. (New course)

Basis for sound care of the physically, socially and emotionally ill or injured. Understanding of factors related to suicide, drug tripping, mental illnesses and other crises.

HUMANITIES

(p. 69) HU-100 Introduction to the Study of Religion--3 crs. (New course)

Definition of "religion" in terms of man's religious belief, experience and expression. The significance of religion in the life and culture of man, including the liberating and restricting forces of religious belief. Emphasis on the contemporary situation with examples from earlier cultures.

(p. 69) HU-221 Introduction to the Old Testament--3 crs. (New course)

Historical and cultural background; literature and interpretation of the Old Testament.

(p. 69) HU-222 Introduction to the New Testament--3 crs. (New course)

Historical and cultural background; literature and interpretation of the New Testament.

(p. 69) HU-251 Religion in Contemporary America--3 crs. (New course)

A consideration of the organization, practices and beliefs of current American religious organizations set in their historical and cultural perspectives. Roman Catholic, Eastern Orthodox, Jewish and Protestant denominations will be included in the study. The role of the church in the modern American community will be assessed and recent trends within and without the church will be discussed. The study will include such recent theological topics as Honest-to-God, God is Dead, The Theology of Hope, The Secular City and the so-called Jesus movement.

DEPARTMENT OF MATHEMATICS

(p. 85) MA-105 Topics in Mathematics--3 crs. (Title Change, Description Change)

Topics to be selected from: Elementary logic, number theory, geometry, algebra and finite mathematics. Recommended for Liberal Arts majors.

(p. 85) MA-106 Fundamentals of Mathematics--3 crs. (Title Change, Description Change, Prerequisite Change)

Linear and quadratic equations, functions and their graphs, trigonometry, analytic geometry of the straight line and conic sections.

(p. 85) MA-111 Elementary Statistics II--3 crs. (New course)

Prq.: MA-110 or permission of the department.

A continuation of the topics in MA-110 with emphasis on experimental design.

(p. 85) MA-202 Linear Algebra--4 crs. (Title Change, Description Change)

Vector spaces, linear transformations, and matrices.

(p. 85) MA-214 Introduction to Modern Algebra--3 crs. (New course)

Prq.: MA-105 or MA-106 or MA-108 or permission of the department. Linear congruences, groups, matrices and linear system.

(p. 85) MA-216 Analytic Geometry--3 crs. (No. Change, Title Change, Prerequisite Change)

Prq.: MA-105 or MA-106 or MA-108 or permission of the department. Trigonometric functions and analytic trigonometry, analytic geometry of the straight line and conic sections.

(p. 85) MA-220 Introduction to Calculus--3 crs. (Prerequisite Change)

Prq.: MA-105 or MA-106 or MA-108 or permission of the department. Graphs and curves, differentiation and integration of algebraic and transcendental functions, applications.

(p. 85) MA-290 Computer Science I--2 or 3 crs. (Description Change, Credit Change)

For science majors. Fixed and floating point formats, computer languages, flow-charting, encoding elementary numerical analysis. Programming will be done in Basic language on the PDP/8-1 computer. May be offered as a quarter or semester course.

(p. 85) MA-292 Computer Science II--3 crs. (New course)

Prq.: MA-290 or permission of the department.

For science majors. Programming in the FORTRAN language on the PDP/-8-1 computer with emphasis on the solution to scientific problems.

(p. 86) MA-308 Linear Algebra II--3 crs. (Removed from catalogue)

(p. 86) MA-321 Introduction to Probability--3 crs. (No. Change, Title Change, Prerequisite Change)

Prq.: MA-105 or MA-106 or MA-108 or permission of the department.
Permutations and combinations, finite sample spaces, random variables, binomial distributions, statistical applications.

(p. 86) MA-322 College Algebra for Elementary Majors--3 crs. (Removed from catalogue)

(p. 86) MA-323 Introduction to Linear Algebra--3 crs. (New Course)

Prq.: MA-105 or MA-106 or MA-108 or permission of the department.
Matrices, determinants, vectors, systems of linear equations.

(p. 86) MA-402 Advanced Calculus II--2 or 3 crs. (Description Change, Credit Change, Prerequisite Change)

Prq.: MA-401 or permission of the department.
Sequences, infinite series, power series and expansions of functions, vector calculus. May be offered as a quarter or semester course.

(p. 86) MA-406 Theory of Sets and Elementary Logic--2 or 3 crs. (Description Change, Credit Change)

Truth tables, rules of inference, method of proof, the algebra of sets and graphs of functions, cardinal numbers. May be offered as a quarter or semester course.

(p. 87) MA-407 Topology--3 crs. (Prerequisite Change)

Prq.: MA-201 and MA-301 or permission of the department.
The elements of point set topology, closed sets and open sets in metric spaces, continuous mappings, connection, separation theorems and compactness.

(p. 87) MA-412 Mathematical Statistics--3 crs. (Prerequisite Change)

Prq.: MA-201 or permission of the department.
Fundamental statistical methods, tests of significance and estimation based on large or small samples, simple correlation, linear regression, statistical inference, sequential analysis.

(p. 87) MA-416 Applied Mathematics--3 crs. (New course)

Prq.: MA-316 or permission of the department.
Fourier analysis, numerical solutions of ordinary and partial differential equations, integral equations, special functions.

(p. 87) MA-421 Analytic Geometry for Elementary Majors--3 crs. (Removed from catalogue)

(p. 87) MA-422 Probability and Statistics for Elementary Majors--3 crs. (Removed from catalogue)

(p. 87) MA-425 Calculus for Elementary Majors--3 crs. (Removed from catalogue)

(p. 87) MA-490 Mathematics Seminar--2 or 3 crs. (New course)

Prq.: MA-201, MA-202, and MA-301 or permission of the department. Topics to be selected from algebra, geometry, and analysis. May be offered as a quarter or semester course.

DEPARTMENT OF MUSIC

(p. 93) MU-111 College Band--1 cr. (Removed from catalogue)

(p. 94) MU-131 Applied Voice I--1 cr. (Title Change, Description Change)

Prq.: Consent of instructor.

Private lessons in voice for the beginning student and those with a limited background in singing. Basic concepts in posture, breathing, diction and vocalises stressed. Solo material selected from vocal literature in English with an introduction to literature in a foreign language. One half-hour period weekly.

(p. 95) MU-331 Applied Voice II--1 cr. (Title Change, Description Change, Prerequisite Change, Credit Change)

Prq.: Consent of the instructor.

Private lessons in voice for those who have satisfied the requirements of MU-131. A continuation of vocalises, breath and tone control, solo material from the literature of German, French, and Italian composers as well as contemporary works in English. One half-hour period weekly.

(p. 94) MU-141 Applied Piano I--1 cr. (Title Change, Description Change, Prerequisite Change, Credit Change)

Prq.: Consent of the instructor.

Private instructions for the beginning piano student and those with limited background in piano. Material selected according to the ability of the student. May be repeated for credit. One half-hour period weekly.

(p. 95) MU-341 Applied Piano II--1 cr. (Title Change, Description Change, Credit Change)

For the advanced student of piano who wishes to improved his ability at the key board. Material selected according to the ability of the student. One half-hour period weekly.

DEPARTMENT OF PHYSICS

(p. 98) PH-202 Modern Physics for the Humanist--3 crs. (New course)

A study of 20th century man's attempts to understand the laws of nature and his relations to them. Among the topics to be considered are the theory of relativity, elementary particles, nuclear physics and the Manhattan project, quantum theory and applications to philosophy and technology.

DEPARTMENT OF SPEECH AND THEATRE

(p. 113) ST-391 Advanced Acting--3 crs. (New course)

Prq.: ST-370, ST-390 or consent of the instructor.
Advanced problems and projects; intensive scene analysis and introduction to styles of acting.

(p. 113) ST-392 Improvisational Acting--3 crs. (New course)

Development of the student's capabilities to interpret his awareness of life through concentration, imagination, and observation.

(p. 113) ST-435 Period Styles of Theatrical Productions--3 crs. (New course)

Prq.: ST-390, ST-395 or consent of the instructor.
Analysis and practice of the staging methods and styles of selected historical periods which are considered classic in the evaluation of theatre, such as: styles appropriate to the works of Sophocles, Plautus, Shakespeare, and Moliere.

BRIDGEWATER STATE COLLEGE
BRIDGEWATER MASSACHUSETTS, 02324